MPEG4 Encoder
Version 2.03.00

Release Notes

April 2010

Build ID: 02.03.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Fixed bug: . SDOCM00068482

Validation Information

Release Configuration	Description	Validation Platform
DM6446_SP_001	MPEG4 Simple Profile Encoder on DM6446 EVM	DM6446 EVM [Datasheet][User Guide]

This release is validated on the following:

- DM6446 EVM

    - Framework Component (FC) version 2.20.00.15

    - DSP/BIOS^{TM} version 5.32.02

    - Code Generation Tool version 6.0.8

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00068482	Artifacts observed for non multiple of 16 streams	DM6446_SP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00051046	Scene change detection not supported – results in visual artifacts for some streams at lower bit rate (CIF at 256 kbps)	DM6446_SP_001
SDOCM00026347	VBV underflow/overflow error reported by Vprove for MPEG4 encoded streams	DM6446_SP_001
SDOCM00052474	Rate control issue - I frame is encoded with lower quality resulting in poorer quality P frames - visible breathing artifacts seen due to this	DM6446_SP_001
SDOCM00025676	Encoding with H.263 mode ON and RC enabled gives visual artifacts.	DM6446_SP_001
SDOCM00026327	Blockiness when encoding flat area - like sky	DM6446_SP_001
SDOCM00036105	H.263+ not supported as a result incorrect frame rate and time stamps are observed	DM6446_SP_001
SDOCM00027164	Bit-exactness issue found in encoder	DM6446_SP_001

TEXAS INSTRUMENTS

MPEG4 Encoder
Version 2.00

Release Notes

January 2009

Build ID: 2.00.004

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Migration of Mpeg4 Encoder from XDM 0.9 (eXpressDSP Digital Media IVIDENC) interface to XDM 1.0 (IVIDENC1) interface.
- Supports capture width.

Validation Information

Release Configuration	Description	Validation Platform
DM6446_SP_001	MPEG4 Simple Profile Encoder on DM6446 EVM	DM6446 EVM [Datasheet][User Guide]

This release is validated on the following:

- DM6446 EVM
  - Framework Component (FC) version 2.20.00.15
  - DSP/BIOS^{TM} version 5.32.02
  - Code Generation Tool version 6.0.8

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00036709	MPEG4 Encoder datasheet does not mention the QDMA channels used	DM6446_SP_001
SDOCM00036507	minInBufsize returned by the codec is 0	DM6446_SP_001
SDOCM00027864	QUEPRI and QDMAQNUM register modified by codec	DM6446_SP_001
SDOCM00036091	Bit-rate deviation of DaVinci MPEG4 encoder at D1 resolution	DM6446_SP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00051046	Scene change detection not supported – results in visual artifacts for some streams at lower bit rate (CIF at 256 kbps)	DM6446_SP_001
SDOCM00026347	VBV underflow/overflow error reported by Vprove for MPEG4 encoded streams	DM6446_SP_001
SDOCM00052474	Rate control issue - I frame is encoded with lower quality resulting in poorer quality P frames - visible breathing artifacts seen due to this	DM6446_SP_001
SDOCM00025676	Encoding with H.263 mode ON and RC enabled gives visual artifacts.	DM6446_SP_001
SDOCM00026327	Blockiness when encoding flat area - like sky	DM6446_SP_001
SDOCM00036105	H.263+ not supported as a result incorrect frame rate and time stamps are observed	DM6446_SP_001
SDOCM00027164	Bit-exactness issue found in encoder	DM6446_SP_001

TEXAS INSTRUMENTS

MPEG4 Encoder
Version 1.20

Release Notes

July 2007

Build ID: 1.20.004

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Supports improved motion estimation algorithm on VICP.

Validation Information

Release Configuration	Description	Validation Platform
DM6446_SP_001	MPEG4 Simple Profile Encoder on DM6446 EVM	DM6446 EVM [Datasheet][User Guide]

This release is validated on the following:

- DM6446 EVM
    - Framework Component (FC) version 1.10.001
    - DSP/BIOS^{TM} version 5.31
    - Code Generation Tool version 6.0.8

TEXAS INSTRUMENTS

Fixed In This Release

- None

Known Issues

Defect ID	Description	Applicable Release Configuration
CDMR00001376	Test application builds with warnings	DM6446_SP_001
CDMR00002476	Video quality artifacts observed in MPEG4 Encoder. The artifacts are observed for interlaced content with high motion.	DM6446_SP_001
CDMR00002489	Encoding with H.263 mode ON and RC enabled gives visual artifacts.	DM6446_SP_001
CDMR00003119	RC algorithm VM4 failure. For VM4 rate control, the deviation between the achieved bit-rate and the target is high.	DM6446_SP_001
CDMR00003699	MPEG4 DaVinci encoder produces blocks for DVD content of D1 @ 2 Mbps	DM6446_SP_001
CDMR00003725	Bit rate deviation of DaVinci MPEG4 encoder at D1 resolution	DM6446_SP_001
CDMR00004036	Blockiness when encoding flat areas	DM6446_SP_001
CDMR00004084	Maximum_video packet size error reported by Mindego analyzer for some streams	DM6446_SP_001
CDMR00004085	VBV underflow / overflow error reported by Vprove for MPEG4 encoded streams	DM6446_SP_001

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